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Abstract for an Invited Paper for the DAMOP06 Meeting of the American Physical Society

Recent progress in modeling the electron-impact ionization of atoms.¹ ANDRIS STELBOVICS, Murdoch University

After several decades of relatively slow progress in modelling the details of the ionization process for electron impact collisions on atoms, very rapid developments have occurred over the past decade in solving the non- relativistic Schroedinger equation for one- and two-electron atoms. This presentation will highlight the critical steps in our increasing knowledge and attempt a (somewhat speculative) forecast for future progress in accurate computation of the ionization process for more complex atomic targets.

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